

### AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled. The listing of claims will replace all prior versions, and listing of claims in the application.

#### Listing of Claims

1. **(Currently Amended)** A method for ultraviolet (UV) liquid disinfection photochemical treatment, the method comprising:  
providing a stream of liquid to be disinfected by UV-radiation, said liquid including contaminants that are not transparent to said UV-radiation having a predetermined flow rate; and  
directing, within said stream of liquid ~~to be disinfected~~, said UV-radiation to disinfect the liquid such that the liquid to be disinfected serves as a flowing liquid wave guide ~~carrying the UV-radiation making use of~~ using total internal reflection, wherein said of the UV-radiation is not converted into heat or sonic or ultrasonic pulses at a distal end of said stream of liquid.
2. – 3. (Cancelled)
4. (Original) The method of Claim 1, wherein said UV-radiation is generated by a laser source.
5. – 15. (Cancelled)
16. (Previously Presented) The method of Claim 1, wherein said liquid having a refractive index greater than a refractive index of the surrounding.
17. (Previously Presented) The method of Claim 1, wherein the UV-radiation being UVA-radiation, UVB-radiation or UVC-radiation.
18. (Previously Presented) The method of claim 1, wherein the liquid being water or wastewater.